

VAUXHALL/OPEL

Nova / Corsa-A 1.0

1988 to 1992

Engine & Cooling

Fuel

Ignition

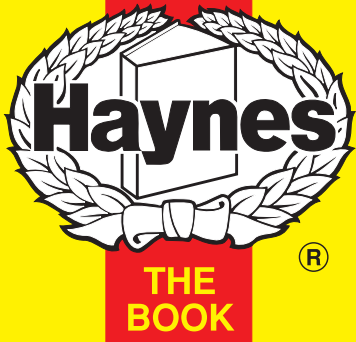
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling system

Nova / Corsa-A 1.0

1988 to 1992

Type		10S OHV. 33kW. 15.04
Capacity (cm ³) / number of cylinders		993 / 4
Compression ratio / pressure	bar	9.2 / _
Oil pressure	bar	1.5
Oil temperature	°C	60
Valve clearance - inlet	mm	0.15 H
Valve clearance - exhaust	mm	0.25 H
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	91 to 107
Radiator cap pressure	bar	1.2 to 1.4

Fuel system

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Idle speed - manual [auto]	rpm	900 to 950
Fast idle speed - manual [auto]	rpm	3600 to 4000
CO @ idle speed [3000 rpm] - see page VI	%	1.0 to 1.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Weber
Type / ref		32 TL 9 276 962 or 90 107 517
Main jet / needle		117. 90 517 107: 112
Injection pressure	bar	_
Pump pressure	bar	0.18 to 0.25
Octane rating	RON	98[RA] ¹

Ignition system

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Type		Contact breaker - CIS
Ignition coil		Delco, Bosch
Primary resistance	ohms	1.2 to 1.6
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Bosch
Points gap (air gap)	mm	≥0.40
Dwell angle	° (%)	50±3 (56±3)
Condenser capacity	µF	0.20±0.03
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10±2 BTDC @ 700 to 1000
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	12.5 to 17 @ 2400
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	20 to 24 @ 3700
Vacuum range check	mbar	120 to 250
Maximum vacuum advance	° Crankshaft	12.5 to 16.5
Spark plugs		AC/Champion
Type		CR45CFS / RL82YC
Electrode gap	mm	0.70 to 0.80

Electrical system

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Battery	V / CC / RC	12 / 210 / 65 or / 175 / 60
Alternator voltage / full load current / engine rpm		13.7 to 14.5 / 45 or 55 / 3500
Starter motor current / voltage - cranking	A / V	250 / 9.7
- locked	A / V	360 to 440 / 7.8 to 8.6

Running gear

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Brakes -		
Front (min. friction material thickness)	mm	7.0 with backing
Rear (min. friction material thickness)	mm	0.5 above rivets

Tyres		
Saloon	Size	135x13: 145x13: 155/70x13 ²
Estate / Van	Size	135x13: 145x13: 155/70x13
Pressure - front / rear - Saloon	bar	1.7 / 1.7 ³
- Estate / Van	bar	1.7 / 1.7 ³

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[-15' to +5']
Camber		-30' to +1° L
Castor		+45' to 2°45' L
King pin inclination		_

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[-5' to +40']
Camber		-40' to -1°35'

Torque wrench settings

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Cylinder head - stage 1	Nm	25 N
- stage 2	Nm	+ 60°
Cylinder head - stage 3	Nm	+ 60°
- stage 4	Nm	+ 60°
Big-end bearings	Nm	28
Main bearings	Nm	62
Clutch cover	Nm	15
Flywheel [driveplate]	Nm	30 + 60° to 80° N
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	20

Capacities

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Engine oil & filter	litres	2.75
Gearbox - 4-speed [5-speed]	litres	1.7 [1.8]
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	5.5
Fuel tank	litres	42

Notes and Illustrations

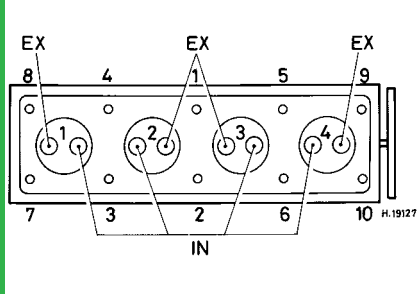
¹Retard ignition by 3°. 1989 ►: [E 95 RON]

²165/70x13: 165/65x14

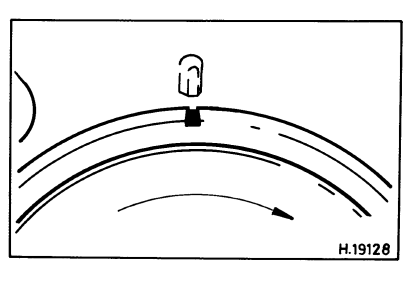
³135x13: 1.9 / 1.7

1: Idle speed

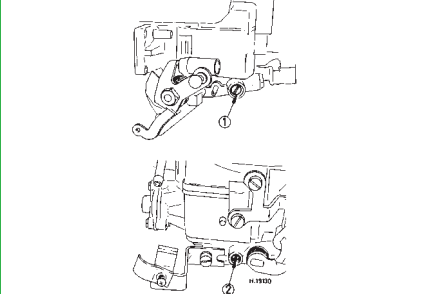
2: CO / Mixture



993 cm³, OHV



993 cm³, OHV



Weber 32 TL